

REQUEST FOR PROPOSAL

COUNTY OF SAN BERNARDINO
PURCHASING DEPARTMENT

Date: September 1, 2006

Proposal No. **H23**

Page No. 1 of 21 Pages

Materials and/or Services: **Stationary Breathing
Support With Fill Station**

To Be Delivered To: **Various Fire Stations**

Submit each individual proposal in separate sealed envelope
with proposal number marked on outside to:

**County Purchasing Agent
777 East Rialto Avenue
San Bernardino, CA 92415-0760**

BEFORE: Thursday, September 28, 2006, 11 AM

For further information, call: Bill Brock, C.P.M., A.P.P.
Deputy Purchasing Agent
(909) 387-2464

INSTRUCTIONS AND CONDITIONS

1. All prices and notations must be typewritten or printed in ink. No erasures permitted. Mistakes may be crossed out and corrections made adjacent, and must be initialed in ink by person signing quotation.
2. State brand, or make, on each item. If quoting an article exactly as specified, the words "or equal" must be stricken out by the vendor. If quoting on other than make, model or brand specified, the manufacturer's name and the catalog number must be given, or descriptive cut and information attached to the quotation.
3. Quote on each item separately. Prices should be stated in units specified herein.
4. Each quotation must be in separate sealed envelope with proposal number on outside, and must be received by County Purchasing Agent, 777 East Rialto Avenue, San Bernardino, CA 92415-0760 not later than the hour and day specified hereon, at which time it will be publicly opened and read.
5. Time of delivery is a part of the consideration and must be stated in definite terms, and must be adhered to. If time varies on different items, the vendor shall so state in the column provided, opposite each item.
6. Terms of less than 30 days for cash discount will be considered as net.
7. All quotations must be signed with the firm's name and by a responsible officer or employee. Obligations assumed by such signatures must be fulfilled.
8. Unless otherwise definitely specified, the prices quoted herein do not include California Sales Tax.
9. No charge for packing, drayage, or for any other purpose will be allowed over and above the prices quoted on this sheet.
10. The right is reserved, unless otherwise stated, to accept or reject any or all quotations, or any part thereof, either separately or as a whole, or to waive any informality in a proposal.
11. The County recognizes that price is only one of several criteria to be used in judging a product or service, and the County is not legally bound to accept the lowest quote.
12. Samples of items, when required, must be furnished free of expense to the County; and if not destroyed by tests, will upon request be returned at vendor's expense.
13. In case of default by the vendor, the County of San Bernardino may procure the articles or service from other sources and may deduct from unpaid balance due the vendor, or may collect against the bond of surety, or mail bill for excess costs so paid, and the prices paid by the County of San Bernardino shall be considered the prevailing market prices paid at the time such purchase is made.
14. Cost of transportation, handling, and/or inspection on deliveries, or offers for delivery, which do not meet specifications, will be for the account of the vendor.
15. The vendor shall hold the County of San Bernardino, its officers, agents,

servants and employees, harmless and defend same from liability of any nature or kind on account of use of any copyright, or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance furnished or used under this quotation.

16. Neither party will be held liable for failure or delay in fulfillment if hindered or prevented by fire, strikes, or Acts of God. (Force Majeure)

17. Quotations are subject to acceptance at any time within 60 days after opening of same, unless otherwise stipulated.

18. Verify your quotations before submission, as they cannot be withdrawn or corrected after being opened.

19. RETURN THIS SHEET WHETHER OR NOT YOU QUOTE A PRICE. If you do not quote, state your reason; otherwise your name may be removed from the mailing list.

20. Accounts paid for transportation of property to the County of San Bernardino are exempt from Federal Transportation Tax. An exemption certificate is not required where the shipping papers show the consignee as San Bernardino County, as such papers may be accepted by the carrier as proof of the exempt character of the shipment.

21. To be considered, each vendor must have an approved Vendor Application on file with the Purchasing Department. Vendors must have registered online through the County Website at <http://www.sbcounty.gov/purchasing/>.

22. The Vendor agrees to comply with Executive Orders 11246, 11375, 11625, 12138, 12432, 12250, Title VII of the Civil Rights Act of 1964, the California Fair Employment Practice Act, Equal Employment Opportunity, San Bernardino County Emerging Small Business Enterprise program, and other applicable Federal, State, and County laws, regulations, and policies relating to equal employment and contracting opportunities, including laws and regulations hereafter enacted. The articles covered by the quotation must conform with safety orders of OSHA, CALOSHA and/or NIOSHA, and OSH-POD.

23. Assignment of the contract by the vendor to other suppliers/contractors must be approved by the Purchasing Agent.

24. Prevailing Wages: Where labor is required for public work as a part of any requirements covered by this request for proposal, pursuant to the provisions of the Labor Code of the State of California, contractor shall pay no less than those minimum wages.

25. Conflict of Interest: Your signature hereon certifies that no County employee, whose position in the County service enables them to influence any award of your offer or any competing offer, shall have any direct or indirect financial interest in any transaction resulting from this request for proposal.

26. Vendors making delivery or providing services on County premises shall carry liability insurance and Worker's Compensation coverage in accordance with the County's Standard Practice requirements.

IMPORTANT: Place signed proposal in envelope, **seal** envelope and show **proposal number** on outside. Return proposal to the County Purchasing Agent, 777 East Rialto Avenue, San Bernardino, CA 92415-0760
PRICES QUOTED F.O.B. DESTINATION UNLESS OTHERWISE STATED.

The following must be filled in by the contractor in submitting his proposal:

Date _____

Company _____

Delivery will be made in _____ days
from receipt of order unless otherwise noted.

Address _____

Cash Discount Terms _____

City & State _____ Zip _____

Signed By _____

Telephone No. (_____) _____

A. GENERAL INFORMATION

1.0 SCOPE OF REQUEST: Stationary Breathing Support w/Fill Station

For supplying of Stationary Breathing Support Systems, furnished in quantities ordered, at times needed, by the successful vendor (the seller), to the County of San Bernardino, (the buyer).

2.0 LENGTH OF CONTRACT:

The contract awarded shall begin on October 1, 2006 or as soon as thereafter practicable and extend through September 30, 2009.

B. INSTRUCTIONS TO VENDORS

1.0 PROPOSAL REQUIREMENT:

Vendors shall conform to all instructions and conditions as specified in the Request for Proposal.

2.0 PROPOSAL RETURN:

All proposals must be sealed and clearly state on the outside of the envelope in the lower left-hand corner "PROPOSAL ENCLOSED, # H23 and returned to:

County of San Bernardino
Purchasing Department
777 E. Rialto Avenue
San Bernardino, Ca 92415-0760
Attn: Bill D. Brock, Deputy Purchasing Agent

Due on or before:

Thursday, September 28, 2006, 11 AM

3.0 DEADLINE:

Vendors shall submit the Signature Page (cover page), References (Attachment A), and Specifications/Bid Sheet(s) (Attachment B) prior to deadline stated above.

4.0 LATE PROPOSALS:

Proposals received after the deadline will be marked "LATE" and will receive no further consideration.

5.0 PROPOSAL OPENING:

All proposals will be opened and read aloud at the time, date and place specified above.

6.0 PROPOSAL PREPARATION INSTRUCTIONS:

Bids must be typed OR printed legibly in ink. Erasures and "white-out" are not permitted. Mistakes may be crossed out, corrections typed adjacent and initialed in ink by person signing the proposal. Proposals must be verified before submission as they cannot be withdrawn or corrected after being opened. The County will not be responsible for errors or omissions on the part of bidders in making up their proposals. Proposals must be signed by a responsible officer or employee. **California State Sales Tax should NOT be included in vendor's proposal.**

7.0 PROPOSAL PREPARATION COST:

Cost for preparing bid response and any other related material is the responsibility of the vendor and shall not be chargeable in any manner to the County.

8.0 USE OF PROPOSALS RECEIVED:

All proposals received shall become the property of the County.

9.0 ACCEPTANCE OR REJECTION OF PROPOSALS:

Proposals shall remain open, valid and subject to acceptance anytime within sixty (60) days after the proposal opening date and time, unless a longer period of time is mutually agreed to by the parties.

The County reserves the right to reject any and all proposals received by reasons of this request, to negotiate separately with any source whatsoever in any manner necessary to serve its interests.

The County realizes that conditions other than price are important and may award based on unit prices or on cumulative totals; whichever method is determined to be in its best interests; may reject any or all proposals, any part of a proposal, or may waive any informality in a proposal.

10.0 PRICE GUARANTEE:

The County gives preference to firm prices. All price escalation provisions will be considered alternate offers. Offers specifying a maximum escalation percentage during the period of contract will be given preference over those offering an unspecified price escalation. The County requires bona fide proof of cost increases on contracts prior to any price escalation adjustment. A minimum of thirty (30) days advance notice provision is required to secure such adjustments. When offering escalating price contracts quote applicable labor and materials separately as to percentage of total cost. No retroactive pricing adjustments will be considered. The County may enforce, adjust, or cancel escalating price contracts as it sees fit. The net dollar amount of profit will remain firm during the period of the contract. Adjustments increasing the vendor's profit will not be allowed. The County shall be given the benefit of all price decreases.

Vendor represents that the prices charged the County do not exceed existing selling prices to other law enforcement agencies for the same or substantially similar items or services for comparable quantities under similar terms and conditions.

11.0 COMPLETION OF QUOTE:

When no manufacturer is specified, vendor must indicate brand of manufacturer being bid. When brand or manufacturer is specified, vendor may bid substitute items as equals, except those items marked "NO SUBSTITUTE". Vendor must be able to justify any substitute item by submitting samples when called for. The County reserves the exclusive right to accept or reject any item. If there is a discrepancy between brand or manufacturer number and item description, the description will be controlling. Changes in packaging will not be authorized unless so indicated when proposal is submitted. Bidder shall complete quote by filling in on each item quoted: brand name, product number and manufacturer. If bidding "As Specified", indicate so, with an "A/S". Indicate if there is a minimum quantity required with order. If unable to quote on an item, specify "No Bid".

Proposals not bearing the signatures of an authorized company officer or agent will be deemed non-responsive and will not be accepted.

Incomplete proposals will not be accepted.

12.0 CONSUMPTION:

Totals shown on proposal schedule are approximate and are minimum estimates for the period of contract in order not to over-contract. Quantities herein are not a guarantee of any quantity purchase as a result of this proposal.

13.0 PURCHASE ORDER ADDRESS:

If purchase orders are to be sent to an address other than that filled in by the vendor on the first page of this proposal, the vendor shall show on the following blank lines the address to which resultant orders from this proposal should be sent:

14.0 REFERENCES:

Vendors responding to this RFP must provide a minimum of three (3) references of Fire Agencies of similar size and scope to whom they have supplied like equipment within the last five (5) years. See Attachment A.

C. STANDARD TERMS AND CONDITIONS

1.0 DELIVERY SERVICE:

- A. Delivery shall be made to point as specified in the County of San Bernardino and to the department of the County as ordered.
- B. Delivery shall be inside delivery to the specified inside point as directed by the receiving department.
- C. Delivery shall be made complete as ordered within the time quoted by Vendor from receipt of order.
- D. Proposals for completing delivery in excess of sixty (60) days from receipt of order do not meet the County requirements and will not be considered.
- E. One delivery, one invoice. Seller shall deliver each item of an order in one shipment, as partial shipment of an order may be rejected, at the buyer's option, unless specifically authorized on the order.
- F. Prompt delivery and efficient service are essential, failure to furnish such delivery and service will constitute a breach of this agreement.
- G. Over the course of the agreement, delivery shall be made to County Fire stations throughout the County of San Bernardino.

2.0 VENDORS GUARANTEE:

- A. In quoting, the seller guarantees to make delivery of all items quoted, either from his stock, from warehouse stocks, or via manufacturer's shipment. If unavailable from Seller's stock or if Seller is unable to secure from warehouse or manufacture, it shall be the Seller's responsibility to see that the item is obtained from any other source having the item in stock.
- B. In case of default by Seller, the Buyer may procure the item from other sources and will charge contract holder for excess costs so paid and the prices paid by the Buyer shall be considered to be the prevailing market price at the time such purchase is made.
- C. Vendor's response to this RFP is to be on the basis that all items bid are guaranteed equal in quality and pattern to those specified and that any item purchased as equivalent and found not acceptable to using department may be returned for full credit.
- D. The Vendor guarantees that the goods supplied under this RFP and any purchase order resulting from award of same will meet all the express warranties and the implied warranties of merchantability and fitness for the intended purpose(s). The Vendor assumes responsibility for damages caused by any defective units supplied and/or for breach of these warranties, including incidental and consequential damage that might arise.

3.0 AWARD:

The County reserves the option to make award(s) as it deems to be in the best interest of the County.

4.0 PAYMENT:

Invoices must reflect both purchase order number and applicable proposal number to initiate payment. Invoices are to be sent to the ordering department.

5.0 PROCUREMENT CARD PROGRAM:

The County participates in the State of California Procurement Card Program known as Cal-card (VISA credit card). Whenever possible, the County prefers to place orders and make payments utilizing procurement cards. Please indicate if your company accepts VISA:

YES _____

NO _____

If your company does not accept procurement cards and you are interested in accepting VISA, contact your local bank or financial institution for assistance.

6.0 ELECTRONIC FUND TRANSFER PROGRAM:

The County of San Bernardino Auditor/Controller-Recorder office prefers direct deposit for vendor payments. Instead of creating a paper check the County will, with the vendor's approval, directly deposit funds to the vendor's checking account via electronic funds transfer (EFT). Details and forms regarding EFT payments will be provided upon award.

7.0 CONFIDENTIALITY:

It is the responsibility of bidders to identify information in their proposals which they consider to be confidential under the California Public Records Act, such as method of manufacture, materials, etc. To the extent that the County agrees with such a designation, such information will be held in strict confidence. All other information shall be considered public.

8.0 DISPUTES RELATING TO PROPOSAL PROCESS AND AWARD

In the event a dispute arises concerning the proposal process prior to the award of the contract, the party wishing resolution of the dispute shall submit a request in writing to the Director of Purchasing. Vendor may appeal the recommended award or denial of award, provided the following stipulations are met:

- a. Appeal must be in writing.
- b. Must be submitted within ten (10) calendar days of the date of the recommended award or denial of award letters.

An appeal of a **denial of award** can only be brought on the following grounds:

- a. Failure of the County to follow the selection procedures and adhere to requirements specified in the RFP or any addenda or amendments.
- b. There has been a violation of conflict of interest as provided by California Government Code Section 87100 et seq.
- c. A violation of State or Federal law.

Appeals will not be accepted for any other reasons than those stated above. All appeals must be sent to:

Jim Lindley – Interim Purchasing Director
County of San Bernardino – Purchasing Department
General Services Building
777 E. Rialto Avenue
San Bernardino, Ca 92415-0760

9.0 LOCAL PREFERENCE:

The County of San Bernardino has adopted a preference for vendors whose principal place of business is located within the boundaries of the County. A five percent (5%) preference may be applied prior to award of any purchase or acquisition of services, equipment, goods or supplies.

For purposes of the application of the local preference policy (County Policy 11-12), "principal place of business" is defined as the vendor's main office (or headquarters) or a major regional office. A "major regional office" is defined as a business location apart from the vendor's main office (or headquarters) which:

- Has been issued a business license, if required, and has been established and open for a minimum of six months prior to the date that the approval authority authorizes the circulation of an RFP/RFB/Quote for any contract, agreement or purchase order to which it responds; and
- Can demonstrate on-going business activity in the field of endeavor on which the Vendor is proposing, from that office during the preceding six months; and
- Has a minimum of twenty-five percent (25%) of the vendor's full time management employees and twenty-five percent (25%) of its full time regular employees working from the San Bernardino County location(s).

The County's Local Preference Policy means for example, if two Vendors are responding to this RFP and if quality, service and ability to meet the County's needs are equal, County staff must determine if one of the Vendors is a local vendor. If one of the Vendors is a local vendor, and its quoted price or cost of services, equipment, goods or supplies does not exceed five percent (5%) of the other vendor's quoted price or cost, unless it is determined that an exemption applies, staff may recommend the local vendor for the contract award.

10.0 IMPROPER CONSIDERATION:

Vendor shall not offer (either directly or through an intermediary) any improper consideration such as, but not limited to, cash, discounts, service, the provision of travel or entertainment, or any items of value to any officer, employee or agent of the County in an attempt to secure favorable treatment regarding the award of this proposal.

The County, by written notice, may immediately terminate any contract resulting from this proposal process if it determines that any improper consideration as described in the preceding paragraph was offered to any officer, employee or agent of the County with respect to the proposal and award process. This prohibition shall apply to any amendment, extension or evaluation process once a contract has been awarded.

Vendor shall immediately report any attempt by a County officer, employee or agent to solicit (either directly or through an intermediary) improper consideration from Vendor. The report shall be made to the supervisor or manager charged with supervision of the employee or to the County Administrative Office.

In the event of a termination under this provision, the County is entitled to pursue any available legal remedies.

11.0 INACCURACIES OR MISREPRESENTATIONS:

If in the course of the RFP process or in the administration of a resulting contract, County determines that Vendor has made a material misstatement or misrepresentation or that materially inaccurate information has been provided to County, Vendor may be terminated from the RFP process or in the event a contract has been awarded, the contract may be immediately terminated.

12.0 EMPLOYMENT OF FORMER COUNTY OFFICIALS:

Vendors are required to provide information on former County of San Bernardino administrative officials (as defined below) who are employed by or represent your business. The information provided must include a list of former County administrative officials who terminated County employment within the last five years and who are now officers, principals, partners, associates or members of the business. This list should also include the employment and/or representative capacity and the dates these individuals began employment with or representation of your business.

For purposes of this section, "County administrative official" is defined as a member of the Board of Supervisors or such officer's staff, County Administrative Officer or member of such officer's staff, County department or group head, assistant department or group head, or any employee in the Exempt Group, Management Unit or Safety Management Unit.

Failure to provide this information may result in the response to the Request for Proposal being deemed non-responsive.

13.0 DRUG-FREE WORKPLACE:

The Vendor certifies that he will comply with the requirements of the Drug-Free Workplace Act of 1990 and will provide a drug-free workplace by taking the following actions:

- a. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a).
- b. Establish a Drug-Free Awareness Program as required by Government Code Section 8355(b) to inform employees about all of the following:
 - i. The dangers of drug abuse in the workplace.
 - ii. The person's or organization's policy of maintaining a drug-free workplace.
 - iii. Any available counseling, rehabilitation and employee assistance programs.
 - iv. Penalties that may be imposed upon any employees for drug abuse violations.
- c. Provide, as required by Government Code Section 8355(c), that every employee who works on the proposed or resulting contract:
 - i. Will receive a copy of the company's drug-free policy statement; and,
 - ii. Will agree to abide by the terms of the company's statement as a condition of employment.

14.0 TERMINATION CLAUSE:

- A.** In the event the County exercises the right to terminate the contract for dissatisfaction, the County will give the Contractor three (3) days written notice of such termination.
- B.** The County of San Bernardino and the Vendor each reserve the right to cancel, for any reason, all or portion of the services covered by this contract. To exercise this right, a thirty-(30) day written notice must be given.

15.0 WAIVER OF DEFAULT:

Any waiver by County of any breach of any one or more of the terms of this agreement shall not be construed to be a waiver of any subsequent or other breach of the same or of any other term or condition herein. Failure on the part of the County to require exact, full and complete compliance with any terms of this agreement shall not be construed as in any manner changing the terms hereof, or stopping County from enforcement hereof.

16.0 INDEMNIFICATION AND INSURANCE REQUIREMENTS:

A. Indemnification

The VENDOR agrees to indemnify, defend and hold harmless the COUNTY and its authorized officers, employees, agents and volunteers from any and all claims, actions, losses, damages, and/or liability arising out of this Agreement from any cause whatsoever, including the acts, errors or omissions of any person and for any costs or expenses incurred by the COUNTY on account of any claim therefore, except where such indemnification is prohibited by law.

B. Insurance

Without in any way affecting the indemnity herein provided and in addition thereto, the VENDOR shall secure and maintain throughout the Agreement the following types of insurance with limits as shown:

1) Workers' Compensation - A program of Workers' Compensation insurance or a State-approved Self-Insurance Program in an amount and form to meet all applicable requirements of the Labor Code of the State of California, including Employer's Liability with \$250,000 limits, covering all persons providing services on behalf of the Contractor and all risks to such persons under this Agreement.

If Contractor has no employees, it may certify or warrant to County that it does not currently have any employees or individuals who are defined as "employees" under the Labor Code and the requirement for Worker's Compensation coverage will be waived by the County's Risk Manager.

With respect to Contractors that are non-profit corporations organized under California or Federal law, volunteers for such entities are required to be covered by Worker's Compensation insurance. If the County's Risk Manager determines that there is no reasonably priced coverage for volunteers, evidence of participation in a volunteer insurance program may be substituted.

2) Comprehensive General and Automobile Liability Insurance - This coverage to include contractual coverage and automobile liability coverage for owned, hired and non-owned vehicles. The policy shall have combined single limits for bodily injury and property damage of not less than one million dollars (\$1,000,000).

C. Additional Named Insured

All policies, except for the Workers' Compensation, Errors and Omissions and Professional Liability policies shall contain additional endorsements naming the COUNTY and its officers, employees, agents and volunteers as additional named insured with respect to liabilities arising out of the performance of services hereunder.

D. Waiver of Subrogation Rights

The VENDOR shall require the carriers of the above required coverage's to waive all rights of subrogation against the COUNTY, its officers, employees, agents, volunteers, vendors, and subcontractor.

E. Policies Primary and Non-Contributory

All policies required above are to be primary and non-contributory with any insurance or self-insurance programs carried or administered by the COUNTY.

F. Proof of Coverage

The VENDOR shall immediately furnish certificates of insurance to the COUNTY Department administering the Agreement evidencing the insurance coverage, including the endorsements above required, prior to the commencement of performance of services hereunder, which certificates shall provide that such insurance shall not be terminated or expire without thirty (30) days written notice to the Department. VENDOR shall maintain such insurance from the time VENDOR commences performance of services hereunder until the completion of such services. Within sixty- (60) days of the commencement of this Agreement, the VENDOR shall furnish certified copies of the policies and all endorsements.

G. Insurance Review

The above insurance requirements are subject to periodic review by the COUNTY. The County's Risk Manager is authorized, but not required, to reduce or waive any of the above insurance requirements whenever the Risk Manager determines that any of the above insurance is not available, is unreasonably priced, or is not needed to protect the interests of the COUNTY. In addition, if the Risk Manager determines that heretofore, unreasonably priced or unavailable types of insurance coverage or coverage limits become reasonably priced or available, the Risk Manager is authorized but not required, to change the above insurance requirements, to require additional types of insurance coverage or higher coverage limits, provided that any such change is reasonable in light of past claims against the COUNTY, inflation, or any other item reasonably related to the County's risk.

Any such reduction or waiver for the entire term of the Agreement and any change requiring additional types of insurance coverage or higher

17.0 PARTICIPATION:

The County desires that Counties, Municipalities, State of California Universities, School Districts, and other Tax Districts within the State of California requiring stationary breathing support systems as specified herein may at their option and through the County Purchasing Agent, avail themselves of the contract resulting from this proposal. Upon notice, in writing, the Seller agrees to the extension of the terms of a resultant contract with such Governmental bodies as though they have been expressly identified in this bid, with the provision that:

1. Such Governmental Body does not have and will not have in force any other contract for like purchases.
2. Such Governmental body does not have under consideration for award any other bids or quotations for like purchases.
3. Such Governmental body shall make purchases directly through the vendor; make payment directly to the vendor. The County will not be liable for any such purchase made between the seller and another Governmental body who avails themselves of this contract.

INDICATE OPTION:

Prices good for the County of San Bernardino only

Prices extended to all law enforcement agencies within the State of California

**ATTACHMENT A
REFERENCES**

List three (3) fire agencies to whom you have supplied like equipment within the last five (5) years.

Agency Name: _____

Address: _____

Contact Person: _____

Telephone No. () _____ Fax () _____

Number of years your company has provided this product to this customer: _____

Agency Name: _____

Address: _____

Contact Person: _____

Telephone No. () _____ Fax () _____

Number of years your company has provided this product to this customer: _____

Agency Name: _____

Address: _____

Contact Person: _____

Telephone No. () _____ Fax () _____

Number of years your company has provided this product to this customer: _____

Submission of this document constitutes permission to the County to check, verify, and have certified all of the information contained herein.

**ATTACHMENT B
SPECIFICATIONS/BID SHEET**

	BIDDER COMPLIES	
	YES	NO
<p>The following specification describes a stationary breathing support to be used by the County of San Bernardino Fire Department. The equipment shall be a new current advertised model built by a well-established manufacturer of this type of equipment.</p> <p>This specification is written towards one manufacturer's design. The intent of the department is not to limit or eliminate Proposals but to start with a buildable set of specification towards the equipment the department is seeking.</p> <p>Each bid shall be accompanied with a detailed description of the equipment proposed. The equipment furnished shall conform to this proposed specification. If the bidder wishes to change from these specifications the bidder shall merely indicate the change, check the paragraph in the column "NO", does not comply, and a detailed description must accompany the bid on what the bidder is proposing to do or supply.</p> <p>GENERAL INFORMATION</p> <p>Each vendor must indicate his compliance with these specifications by marking "YES" or "NO" in the appropriate column for each paragraph of this specification. Indicating "YES" to a paragraph will mean full compliance; indicating "NO" will mean an exception is being taken. All exceptions must be fully explained on a separate page, titled "Exceptions", giving reference to the page and paragraph where the exception is being taken. Simply state your exception and support your recommendation. Failure to comply with this requirement may result in the proposal being rejected.</p> <p>The equipment will be of the latest type, carefully designed and constructed with due consideration to the nature of intended use and distribution of the load to be sustained.</p> <p>Each vendor will include two (2) copies of the proposal and bid package. Each package will be accompanied by a detailed description of the apparatus and equipment it proposes to furnish. It is the intent of these specifications to cover the furnishing and delivery of a complete and soundly engineered apparatus equipped as specified. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who will be solely responsible for the design and construction of all features. The apparatus furnished must conform to these proposed specifications. The model, size, type, and make of all component parts must be so indicated on the description.</p> <p>PROPOSAL PRICING AND OFFERING</p> <p>The proposal pricing shall remain open for a period of twelve months from the awarded date. After the twelve month time span has elapsed, the award could be kept open for a maximum of three (3) years with annual price increases based on the US Department of Consumer price index.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>DELIVERY</p> <p>The unit shall be delivered hooked up and in operational condition before the Department accepts the unit. The Department shall have the electrical to the location to allow the vendor to do all final hook ups and mounting of the unit.</p> <p>Time of delivery is of great importance to the Department. The bidder shall include with this bid package the delivery date.</p> <p>This equipment shall be delivered with all operating, maintenance, and repair manuals.</p> <p>GENERAL SPECIFICATION</p> <p>Specification for a high pressure compressor and purification system to supply breathing air that meets or exceeds the requirements of CGA Pamphlet G-7, Compressed Air for Human Respiration, the requirements of ANSI/CGA G-7.1, Commodity Specification for Air, Grade E and Grade D, and all other recognized standards for respirable air. The same supplier shall manufacture the compressor and purification system. The system shall be designed for a maximum working pressure of 6,000 PSIG. All equipment shall be new and of current design and manufacture. Used or refurbished equipment is unacceptable.</p> <p>MODEL</p> <p>Bauer or equivalent</p> <p>Class II, 6000 PSI SERVICE, HORIZONTAL DESIGN</p> <p>Compressor model – H13-E3LS</p> <p>FAD SCFM – 10.8</p> <p>Charging Rate, SCFM – 13.0</p> <p>HP - 10.0</p> <p>RPM – 1420</p> <p>Electrical – 208-230 VAC, three phase</p> <p>FRAME</p> <p>The breathing air station shall be supplied on a structural steel frame of welded construction. The frame shall be designed for both the static and dynamic loads of the system and of sufficient size to adequately accommodate all of the station's components.</p> <p>The compressor and purification system outer enclosure and all tubing shall be enclosed with sound attenuating panels. Each enclosure access panel shall be equipped with a slam-action latch and lift-off hinges.</p> <p>DESIGN/OPERATION</p> <p>The system shall be mounted on a horizontal steel frame designed for both the static and dynamic loads of the system and of sufficient size to adequately accommodate all of the system's components. The arrangement of components on the frame shall permit unrestricted cooling airflow to the compressor and prime mover, and provide access for operation and maintenance. The frame and all support structures shall be finished with a baked on polyester powder coat paint for the ultimate in durability, corrosion resistance, and long life.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>The system shall be designed for operation indoors with room temperatures ranging between 40°F and 115°F. Installation shall not require a special foundation; however, it is the responsibility of the purchaser to ensure the installation site has a solid and level foundation that can support the weight of the system. The purchaser must also ensure the availability of a qualified source of air for the intake of the compressor and adequate ventilation.</p> <p>All piping and tubing shall be properly supported and protected to prevent damage from vibration during shipment, operation, or maintenance. Piping and tubing shall be installed in a neat and orderly arrangement, adapting to the contours of the system. All instrument tubing shall be 300 series stainless steel.</p> <p>WARRANTY</p> <p>The station shall be warranted free from defects in material and workmanship for a period of eighteen months from date of shipment or twelve months from date of start-up, whichever expires first. The warranty shall not impose limitations on the station's accumulated operating hours during the warranty period.</p> <p>COMPRESSOR</p> <p>The compressor shall be an air-cooled, oil lubricated, four stage, three cylinders, single acting, reciprocating compressor. The crankcase shall be cast of a high strength, aluminum alloy. The crankshaft shall be of a single piece forged steel construction, and supported in the crankcase by three long-life roller bearings. The connecting rods shall be of single piece design and constructed of a high strength aluminum alloy. Each connecting rod shall incorporate a roller bearing at the crank and pin ends. The pistons shall be constructed of an aluminum alloy. Piston rings on the first through third stage are of cast iron; fourth stage rings shall be of a high strength polyimide. The final stage shall be a ringed, free-floating aluminum piston, which is driven by a guide piston and the previous stage's discharge pressure. The cylinders shall be of cast iron construction with deep cooling fins on the external surface for optimum heat dissipation. The stages shall be arranged in a "W" configuration with the first and second stages sharing a common stepped cylinder. Each cylinder shall be located directly in the cooling fan's airflow. The cylinders shall be removable from the crankcase. The compressor's flywheel shall be cast iron. A multi-wing, high velocity cooling fan shall be integral to the flywheel.</p> <p>Intercoolers shall be provided after each stage of compression and an after cooler shall be provided after the final stage of compression. The coolers shall be individually detachable from the compressor, located directly in the cooling fan's airflow. Both intercoolers and after cooler shall be made of stainless steel. The after cooler shall be designed to cool the discharge air to within 18°F of ambient temperature. A cool-down cycle shall not be required prior to stopping the compressor.</p> <p>The compressor shall be lubricated by a combination splash and low-pressure lubrication system. A pressurized lubrication circuit shall lubricate the final stage of compression. The other stages and the driving gear shall be splash lubricated. The pressure lubrication circuit shall include a positive displacement oil pump, gear driven by the crankshaft, and a non-adjustable oil pressure regulator. A highly visible sight glass shall be included to check the oil level. The oil drain for the compressor shall be piped to the outside of the frame.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>The compressor shall be equipped with an inlet filter with replaceable particulate elements. An inlet filter maintenance indicator shall be installed on the instrument panel.</p> <p>PRIME MOVER AND V-BELT</p> <p>The electric motor shall be of the open drip-proof (ODP) design. The purchaser shall specify the motor voltage, phase and frequency.</p> <p>The compressor and motor shall be mounted on a common base that is vibration isolated from the system's mainframe. Power from the motor shall be transmitted to the compressor by a V-belt drive. The V-belt drive shall be designed to tighten the drive belts automatically. The v-belt drive shall be suitably guarded. Rotation arrows shall be affixed in a conspicuous location on the system.</p> <p>ELECTRICAL CONTROL</p> <p>The control panel shall be built in compliance to UL's Industrial Control Panel Custom Builders Program and shall be affixed with a U.L. label. Electrical systems not built to the same rigorous standards shall not be deemed acceptable, as they do not meet the same quality and testing standards. The panel shall be installed in a NEMA 4 Electrical Enclosure and shall include the following standard features:</p> <ol style="list-style-type: none">1. Across-the-line magnetic motor starter2. Fused transformer3. PLC compressor control system consists of a programmable logic controller for the monitoring, protection and control of standard compressor systems4. Warning and alarm indicator lights<ul style="list-style-type: none">• All lamps shall be as a minimum 22 mm diameter• Lamp test function built in• Lamps will flash code representing fault5. Built in overtime timer set at 5 hours - optional times available6. Final separator counter warning and alarm functions7. Full support of SECURUS warning and alarm functions (optional)8. Full support of CO monitor alarm functions (optional)9. Motor overload alarm10. On / off selector switch11. Emergency stop12. Support of Automatic Condensate Drain System (ACD) reservoir level switch13. Low oil pressure alarm with shutdown14. High temperature alarm with shutdown15. Support of Automatic Condensate Drain System (ACD) timer set points <p>When the On/Off selector switch is in the "ON" position, the compressor/motor shall automatically start and stop to maintain the system's operating pressure between the high and low set points of the final pressure switch.</p> <p>A non-resettable hour meter shall be supplied to record the number of compressor operating hours.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>A pressure switch shall monitor the compressor oil pressure. The compressor shall shut down and a fault light illuminate should the compressor's oil pressure drop below the factory preset value during operation. The oil pressure switch shall be by-passed during start-up to permit the oil pump to achieve the normal operating pressure.</p> <p>A temperature switch shall be supplied on the discharge line of the final stage of compression. The system shall shut down and a fault light illuminate should the final stage discharge temperature exceed the tamper-proof set point during operation.</p> <p>For ease of system diagnosis and maintenance, the oil and air pressure switches shall be equipped with DIN type connectors. Additionally, each pressure switch shall be equipped with an accompanying pressure gauge. The unit wiring shall be accomplished with a 24-wire harness and circular weatherproof connector at the NEMA-4 electrical enclosure. All wiring shall be color-coded and encapsulated in a split wire loom for protection. All wiring within the NEMA-4 electrical enclosure shall be numbered. Systems not built to this same standard shall not be deemed acceptable, as they do not provide the same level of system diagnosis capability.</p> <p>The On/Off selector switch, power-on light, hour meter and fault lights shall be installed on the electrical enclosure.</p> <p>All components mounted on the electrical enclosure and/or instrument panel shall be located and arranged for visibility and easy access by the operator and for accessibility for inspection and maintenance. All components shall be securely supported to eliminate vibration and undue force on instrument piping and to prevent damage during shipment, storage, operation and maintenance. The panel is provided with a 7-mil Lexan® overlay with all alarm and warning codes.</p> <p>PURIFICATION SYSTEM</p> <p>The purification system shall purify high-pressure air to a quality that meets or exceeds the requirements of CGA Pamphlet G-7, Compressed Air for Human Respiration, ANSI/CGA G-7.1, Commodity Specification for Air, Grade E, and all other recognized standards for breathing air. Purification shall be achieved by mechanical separation of condensed oil and water droplets, adsorption of vaporous water by a desiccant, adsorption of oil vapor and elimination of noxious odors by activated carbon and conversion of carbon monoxide to respirable levels of carbon dioxide by catalyst.</p> <p>The high-pressure purification chambers shall have a working pressure of 6000 PSIG. The purification system shall utilize replaceable cartridges. The purification system shall be designed so that the replacement of the cartridges can be accomplished without disconnecting system piping. The design of the chambers shall preclude the possibility of operating the system without cartridges installed or with improperly installed cartridges. A bleed valve shall be provided to vent the purification system to facilitate replacing the cartridges. A pressure maintaining valve and a check valve shall be supplied downstream of the purification system to increase the efficiency of the purification system by maintaining a positive backpressure. A check valve shall be supplied between the coalescing separator on the compressor's discharge line and the purification system to maintain the positive pressure in the purification system when the compressor shuts down.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>The purification system shall include Bauer's patented Securus Electronic Moisture Monitor System. A sensor shall be located in the Securus purifier cartridge for direct monitoring of moisture levels. A display module, to indicate the status of the Securus cartridge, shall be supplied in the instrument panel. Securus system shall warn the operator, in advance, of the impending expiration of the Securus cartridge. The compressor shall shut down automatically should the operator fail to change the Securus cartridge within the warning period. The compressor shall not be capable of restarting until the used cartridge is replaced with a new one. The moisture monitoring system shall be of a fail-safe design. Should the electrical contact between the display module and sensor be disconnected, an immediate fault shut down shall be affected. For absolute safety and highest quality breathing air, no manual override shall be supplied for the moisture monitor.</p> <p>INSTRUMENT PANEL</p> <p>The purification system shall purify high-pressure air to a quality that meets or exceeds the requirements of CGA Pamphlet G-7, Compressed Air for Human Respiration, ANSI/CGA G-7.1, Commodity Specification for Air, Grade E and Grade D, and all other recognized standards for breathing air. Purification shall be achieved by mechanical separation of condensed oil and water droplets, adsorption of vaporous water by a desiccant, adsorption of oil vapor and elimination of noxious odors by activated carbon and conversion of carbon monoxide to respirable levels of carbon dioxide by catalyst.</p> <p>The high-pressure purification chambers shall be designed for a working pressure of 6000 PSIG. The purification system shall utilize replaceable cartridges. The purification system shall be designed so that the replacement of the cartridges can be accomplished without disconnecting system piping. The design of the chambers shall preclude the possibility of operating the system without cartridges installed or with improperly installed cartridges. A bleed valve shall be provided to vent the purification system to facilitate replacing the cartridges. A pressure maintaining valve and a check valve shall be supplied downstream of the purification system to increase the efficiency of the purification system by maintaining a positive backpressure. A check valve shall be supplied between the coalescing separator on the compressor's discharge line and the purification system to maintain the positive pressure in the purification system when the compressor shuts down.</p> <p>The purification system shall include Bauer's patented Securus Electronic Moisture Monitor System. A sensor shall be located in the Securus purifier cartridge for direct monitoring of moisture level. A display module shall be supplied to indicate the status of the Securus cartridge. The display module shall be installed on the instrument panel. The moisture monitoring system shall warn the operator, in advance, of the impending saturation of the Securus cartridge. The system shall shut down automatically should the operator fail to change the Securus cartridge within the warning period. The system shall not be capable of restarting until the used cartridge is replaced with a new one. The moisture monitoring system shall be of a fail-safe design. Should the electrical contact between the display module and sensor be disconnected, an immediate fault shut down shall be affected. For absolute safety and highest quality breathing air, no manual override shall be supplied for the moisture monitor.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>INSTRUMENTATION PANEL</p> <p>Located at the top of the compressor enclosure shall be an instrumentation panel. The panel shall include liquid filled oil and interstage pressure gauges as well as inlet filter restriction indicator. The panel shall be angled toward the operator for maximum visual impact.</p> <p>ENCLOSURE</p> <p>The enclosure shall be made up of heavy gauge sheet metal with all but the rear and top panels being removable, without the use of hand tools, maximizing maintenance acceptability. Each removable panel shall be held in place by quarter turn latches that incorporate a unique knurled knob for positive gripping. The top panel shall be hinged and shall include two support struts that will hold the door in the open position while performing routine maintenance tasks. The door shall also incorporate a unique built in holder that will accommodate the compressor cd based technical manual. A clear acrylic window shall be provided over the instrumentation panel to protect the gauges from inclement weather or debris.</p> <p>AUTOMATOIC CONDENSATE DRAIN SYSTEM</p> <p>An automatic condensate drain (A.C.D.) system shall be supplied for all of the separators. Drain timers shall be controlled by the PLC and preset to drain the separators approximately every fifteen minutes for approximately six seconds. The A.C.D. system shall unload the compressor on shutdown for unloaded restart. An exhaust muffler and condensate reservoir shall be supplied. The reservoir shall be equipped with a float switch that will automatically shut the compressor system off if the reservoir requires draining. Manually operated valves shall be supplied to override the automatic operation of the A.C.D. system for test and maintenance purposes.</p> <p>INLET FILTER MAINTENANCE INDICATOR</p> <p>The compressor system shall incorporate an air inlet filter restriction indicator that shall visually alert the system operator of the need for filter servicing.</p> <p>CARBON MONOXIDE MONITOR WITH CALIBRATION KIT</p> <p>The unit shall be designed to provide continuous monitoring of the carbon monoxide levels in the processed breathing air and shall shut the compressor system down if the monitor detects trace elements of carbon monoxide in excess of 10 ppm. Along with system shutdown an audible alarm shall sound and the remote display shall indicate the alarm. The instruments electronics shall be encased within a NEMA 4X polycarbonate enclosure. The case is corrosion resistant, positively pressurized by the compressor air supply line, and sealed except for a bleed hole to exhaust the compressor's processed air. The unit shall operate on system voltage. Along with a built in flow meter, the system shall include an illuminated display and internal switches to check the system circuitry.</p> <p>There shall be no calibration adjustments or controls as the system functions are managed by the system microprocessor. The chemical cell shall have a life expectancy of approximately two to three years with a calibration period recommendation of every 30 days. The system shall include two cylinders of test gas; 20-ppm carbon monoxide and zero test gas. Additionally a regulator shall be provided. Recalibration shall only require the following:</p>		

	BIDDER COMPLIES	
	YES	NO
<ul style="list-style-type: none"> Shut off the compressor supply line. If the operator fails to close the valve a prompt on the monitor display shall indicate "Supply Off". Connect the test gas to the cal port connector on the instrument The monitor display will read "Cal Gas" and shall automatically initiate a 60 second countdown. After the unit has automatically calibrated itself a message will appear "CO G Set" indicating that the CO adjustment has been set for 20 ppm. <p>CASCADE FILL CONTROL PANEL Specification for containment fill station to refill self-contained breathing apparatus (SCBA). The fill station shall be designed for a maximum working pressure of 6,000 PSIG. All equipment shall be new and of current design and manufacture. Used or refurbished equipment is unacceptable. Specifications are subject to change without notice.</p> <p>BAUER MODEL CFSII-2S</p> <p>CONTAINMENT FILL STATION The fill station shall be built and tested to conform to NFPA 1901, 2003 Edition.</p> <p>The fill station shall be designed for stationary applications. The fill station shall be constructed of formed plate steel and shall be fully enclosed.</p> <p>The fill station shall be warranted free from defects in material and workmanship for a period of eighteen months from date of shipment or twelve months from date of start-up, whichever expires first.</p> <p>The front-loading, two position; containment fill station shall totally enclose the SCBA or SCUBA cylinders during the refilling process.</p> <p>The fill station's outer enclosure and door assemblies shall be constructed of formed ¼ inch thick plate steel. Venting shall be provided in the bottom of the fill station to allow the rapidly expanding air from a ruptured cylinder to escape from the fill station. The fill station shall be ergonomically designed for maximum operator convenience and safety for refilling cylinders. The fill station door and cylinder holder assembly shall tilt out towards the operator 45 degrees, providing unobstructed access to the cylinder holder to load and unload the cylinders. A handle and heavy-duty gas spring shall be incorporated into the design of the fill station to assist the operator in opening and closing the fill station door. It shall take no more than approximately eighteen pounds of effort to open or close the fill station door thereby eliminating operator fatigue.</p> <p>Each cylinder holder shall be lined to prevent scuffing the outer surface of the SCBA cylinders. For complete operator protection, the fill station shall include a safety interlock system that will prevent refilling SCBA cylinders unless the fill station door is closed and secured in the locked position. The automatic interlock will require no actuation of secondary latching mechanism on the outside of the fill station.</p>		

	BIDDER COMPLIES	
	YES	NO
<p>Two fill hoses shall be located within the fill station. Each fill hose shall be equipped with a bleed valve and SCBA fill adapter of choice. Fill hose retainers shall be provided to anchor the fill hoses when not in use.</p> <p>CONTROL PANEL</p> <p>The fill control panel shall be installed on the front of the fill station. The control panel shall be factory piped and designed to fill two SCBA or SCUBA cylinders either independently or simultaneously.</p> <p>The control panel shall include the following standard features:</p> <ul style="list-style-type: none"> • Inlet pressure gauge • Adjustable pressure regulator • Regulated pressure gauge • Two (2) fill control valves • Two (2) fill pressure gauges • One (1) relief valve for regulated fill pressure • Provisions for factory or field modification to allow a different fill pressure at each fill position <p>All piping and tubing shall be properly supported and protected to prevent damage from vibration during shipment, operation or maintenance. Piping and tubing shall be installed in a neat and orderly arrangement, adapting to the contours of the station. All instrument tubing shall be 300 series stainless steel.</p> <p>All control panel mounted pressure gauges shall be 2 ½" diameter and be liquid filled. All panel-mounted components shall be labeled with a nameplate.</p> <p>CASCADE PANEL</p> <p>The following factory installed cascade panel offering shall be designed for four bank cascading. Each shall be equipped with one (1) compressor inlet bulkhead fitting, four (4) bank valves and four (4) bank pressure gauges. The cascade panel shall be a top mount, dual function design.</p> <p>Top Mount cascade panels shall be designed for installation on top of the fill station. This panel shall increase the height of the fill station 5" inches.</p> <p>Dual Function cascade panels shall allow the simultaneous accomplishment of "filling to a storage bank" while "filling from another storage bank" without the equalization of the storage bank pressures. Strategically placed tees and check valves shall allow the filling of a storage bank even though that storage bank's corresponding "bank valve" on the cascade panel is in the closed position. In addition, Dual Function panels shall be equipped with an air directional valve to allow the operator to select "Fill From Storage" or "Fill From Compressor". The Dual Function option shall allow optimal use of the customer's stored air and is ideal for larger facilities that require multiple rapid fills.</p> <p>INSTALLATION</p> <p>The fill station shall be provided on its own freestanding base and shall not exceed the following approximate dimensions: 52-1/4" high, 29-1/2" wide, and 21-1/4" deep. The weight with base and side control panel shall not exceed 830#</p>		

	BIDDER COMPLIES	
	YES	NO
<p>TESTING AND PREPARATION FOR SHIPMENT</p> <p>Prior to shipment, the manufacturer shall test the fill station. A copy of the manufacturer's test report shall accompany the unit at shipment. An operator's instruction and maintenance manual shall be supplied with the unit. The manual shall be as detailed as possible, outlining all operating and maintenance instructions. The manual shall include detailed illustrated drawings along with a complete parts listing for all illustrated components. Warnings and safety precautions shall be included in the manual.</p> <p>A manufacturer's nameplate shall be securely affixed to station's frame in a conspicuous location.</p> <p>The fill station shall be suitably prepared for motor freight transport. The unit shall be bolted to a wood pallet, wrapped in sheet plastic and fully protected by a wood crate or cardboard box. All bulkhead fittings and similar openings shall be suitably plugged or covered. Component parts, loose parts or associated spare parts shall be packaged separately and shipped on the same pallet if feasible.</p> <p>TESTING AND PREPARATION FOR SHIPPING</p> <p>The breathing air station shall be tested by the manufacturer prior to shipment. A copy of the manufacturer's test report shall accompany the station at shipment.</p> <p>A manufacturer's nameplate shall be securely affixed to the frame in a conspicuous location. The nameplate shall include, at a minimum, manufacturer's name, model number and serial number, compressor block number, system operating pressure, compressor operating speed, compressor capacity and charging rate, motor horsepower, voltage, frequency, amperage and date of manufacture.</p> <p>The station shall be suitably prepared for motor freight transport. The station shall be bolted to a wooden pallet, wrapped in sheet plastic, and fully protected by a wooden crate. The compressor intake and similar openings shall be suitably covered. Component parts, loose parts or associated spare parts shall be packaged separately and shipped on the same pallet if feasible.</p> <p>DOCUMENTATION</p> <p>A documentation package shall be supplied with the station. The documentation package shall include, at a minimum, an operation manual, recommended spare parts list, warranty information and a start-up/warranty registration form.</p> <p>The Operator's Instruction and Maintenance Manual for the breathing air station shall be as detailed as possible, outlining all operation and maintenance instructions. The manual shall include detailed illustrated drawings for the compressor block and all system components along with a complete parts listing for all illustrated components. Warnings and safety precautions shall be identified clearly in the manual.</p> <p>ASME STORAGE SYSTEMS</p> <p>These cylinders shall conform to the ASME (American Society of Mechanical Engineers) codes for permanent installation. The vessels shall be fabricated and stamped in accordance with section VIII, Division 1 of the latest edition of the ASME code for unfired pressure vessels for non-corrosive service. Each vessel shall have</p>		

	BIDDER COMPLIES	
	YES	NO
<p>a volume of 436 cubic feet at 5,000 psi with a safety factor of 4 to 1 and 491 cubic feet at 6,000 psi with a safety factor of 3 to 1. All storage systems shall be in accordance with OSHA 29 CFR 1910.169, which, in part, states that each pressure vessel must have an indicating pressure gauge, a spring-loaded safety valve and moisture drain valve.</p> <p>Cylinder specifications: ASME cylinder weight: 400 lbs. Cylinder material: Steel ASME SA 372 Class V Type A AISI 4130 Cylinder height: 54" without valve Cylinder diameter: 9 5/8" Number of storage cylinders: 4</p> <p>All 1/4" hose connectors can be removed for 1/4" NPT pipe connection. Cascade fill is accomplished by connecting several BANK assemblies to a Bauer cascade panel.</p> <p>Each storage cylinder shall be equipped with one (1) Factory set ASME relief valve (6600 PSI).</p> <p>Universal Four-Position Welded Steel Rack. RCK-0037 designed for use horizontally. In addition, these racks can be bolted together to form multiple cylinder storage systems.</p>		

STATIONARY BREATHING SUPPORT W/FILL STATION - PRICE EACH \$ _____

MANUFACTURE/MODEL BID _____

COMPANY NAME _____

COMPANY REPRESENTATIVE SUBMITTING BID _____

PHONE NUMBER () _____ (PLEASE PRINT)

BID AUTHORIZING SIGNATURE _____